

Contents

Marine Chemistry, Vol. 22 (1987)

Research Papers

Mechanistic study of interations between photo-oxidation and biodegradation of n-nonylbenzene in seawater J.F. Rontani, P. Bonin and G. Giusti (Marseille, France)	1
Composition and bacterial utilization of free amino acids in tropical mangrove sediments S.O. Stanley (Argyll, Gt. Britain), K.G. Boto, D.M. Alongi and F.T. Gillan (Townsville, Australia)	13
Metal release from particulate oil ash in seawater V.T. Breslin and I.W. Duedall (Melbourne, FL, U.S.A.)	31
A new method for the rapid measurement of ^{224}Ra in natural waters Rama, J.F. Todd, J.L. Butts and W.S. Moore (Columbia, SC, U.S.A.)	43
Analysis and distribution of iron sulfide minerals in recent anoxic marine sediments J.W. Morse and J.C. Cornwell (College Station, TX, U.S.A.)	55
The influence of seagrass beds on carbonate sediments in the Bahamas J.W. Morse, J.J. Zullig (College Station, TX, U.S.A.), R.L. Iverson, G.R. Choppin (Tallahassee, FL, U.S.A.), A. Mucci, (Montreal, Canada) and F.J. Millero (Miami, FL, U.S.A.)	71
Photo-oxidation products of fossil fuel components in the water of Hamilton Harbour, Bermuda M. Ehrhardt (Kiel, F.R.G.)	85
Tungsten in north Pacific waters Y. Sohrin, K. Isshiki and T. Kuwamoto (Kyoto, Japan)	95
<i>Obituary</i>	105
<i>Editorial</i>	I
Research Papers	
Planning for quality data J.K. Taylor (Gaithersburg, MD, U.S.A.)	109
Heavy metal analyses in the marine environment — approaches to quality control E.D. Goldberg (La Jolla, CA, U.S.A.)	117
Dissolved Cd behaviour in some selected French and Chinese estuaries. Consequences on Cd supply to the ocean F. Elbaz-Poulichet, J.M. Martin (Montrouge, France), W.W. Huang and J.X. Zhu (Qingdao, People's Republic of China)	125
Review of data on eolian fluxes of industrial and natural lead to the lands and seas in remote regions on a global scale C.C. Patterson and D.M. Settle (Pasadena, CA, U.S.A.)	137
Accuracy and precision of lead isotopic composition measurements in seawater A.R. Flegal (Santa Cruz, CA, U.S.A.) and V.J. Stukas (Sidney, B.C., Canada)	163
The effect of ionic interaction on the rates of oxidation in natural waters F.J. Millero, M. Izaguirre and V.K. Sharma (Miami, FL, U.S.A.)	179
The characterization of iron sulfide minerals in anoxic marine sediments J.C. Cornwell and J.W. Morse (College Station, TX, U.S.A.)	193
Trace metals in selected organisms from the Adriatic Sea D. Martinčić, Ž. Kwokal, M. Branica (Zagreb, Yugoslavia) and M. Stoepller (Jülich, F.R.G.)	207

Influence of sedimentological features on the distribution of trace metals in marine sediments	221
G. Cauwet (Perpignan, France)	
Metal pollution assessment of the marine environment by determination of metal-binding proteins in <i>Mytilus</i> sp.	221
J. Pavičić, M. Škreblin, B. Raspot, M. Branica (Zagreb, Yugoslavia), M. Tušek-Žnidaric, I. Kregar and P. Stegnar (Ljubljana, Yugoslavia)	235
On the effectiveness of the ocean's biological pump in global CO ₂ scenarios	249
K. Wagener and A. de Luca Rebello (Rio de Janeiro, Brazil)	
Organic matter and surface properties of solid particles in the estuarine mixing zone	257
J. Jednačak-Bišćan and M. Juračić (Zagreb, Yugoslavia)	
Element-specific detectors for liquid chromatography: the determination of arsenic compounds	265
K.J. Irgolic and R.A. Stockton (College Station, TX, U.S.A.)	
Heavy metal distribution in recent sediments of the Krka River Estuary — an example of sequential extraction analysis	279
E. Prohić and G. Kniewald (Zagreb, Yugoslavia)	
Effect of sample pretreatment on the reliability of solid speciation data of heavy metals — implications for the study of early diagenetic processes	299
M. Kersten and U. Förstner (Hamburg, F.R.G.)	
Sequential extraction techniques: promises and problems	313
J.M. Martin, P. Nirel and A.J. Thomas (Montrouge, France)	
Marine sampling by scuba diving. 3. Sampling procedures for measurement of mercury concentrations in estuarine waters and seawater	343
G. Kniewald, Ž. Kwokal (Zagreb, Yugoslavia) and M. Branica (Julich, F.R.G.)	
An in situ pump sampler for trace materials in seawater	353
B.D. Johnson, P.J. Wangersky and X. Zhou (Halifax, N.S., U.S.A.)	
Direct determination of surface active substances in natural waters	363
B. Cosović and V. Vojvodić (Zagreb, Yugoslavia)	
<i>Announcement</i>	375
<i>Erratum</i>	375

